

ABSTRACT

A method for secure communications between a client and one of a plurality of servers performed on an intermediary device coupled to the client and said plurality of servers. In one aspect, the method comprises: establishing an open communications session between the intermediary device and the client via an open network; negotiating a secure communications session with the client; establishing an open communications session with said one of said plurality of servers via a secure network; receiving encrypted data from the client via the secure communications session; decrypting encrypted application data; forwarding decrypted application data to the server via the secure network; receiving application data from the server via the secure network; encrypting the application data; and sending encrypted application data to the client. In a further aspect, an apparatus including a network interface communicating with the public network and the secure network at least one processor, programmable dynamic memory addressable by the processor, and a communications channel coupling the processor, memory and the network communications interface is provided. The apparatus further includes a proxy TCP communications engine, a proxy SSL communications engine, a server TCP communications engine; and a packet data encryption and decryption engine.